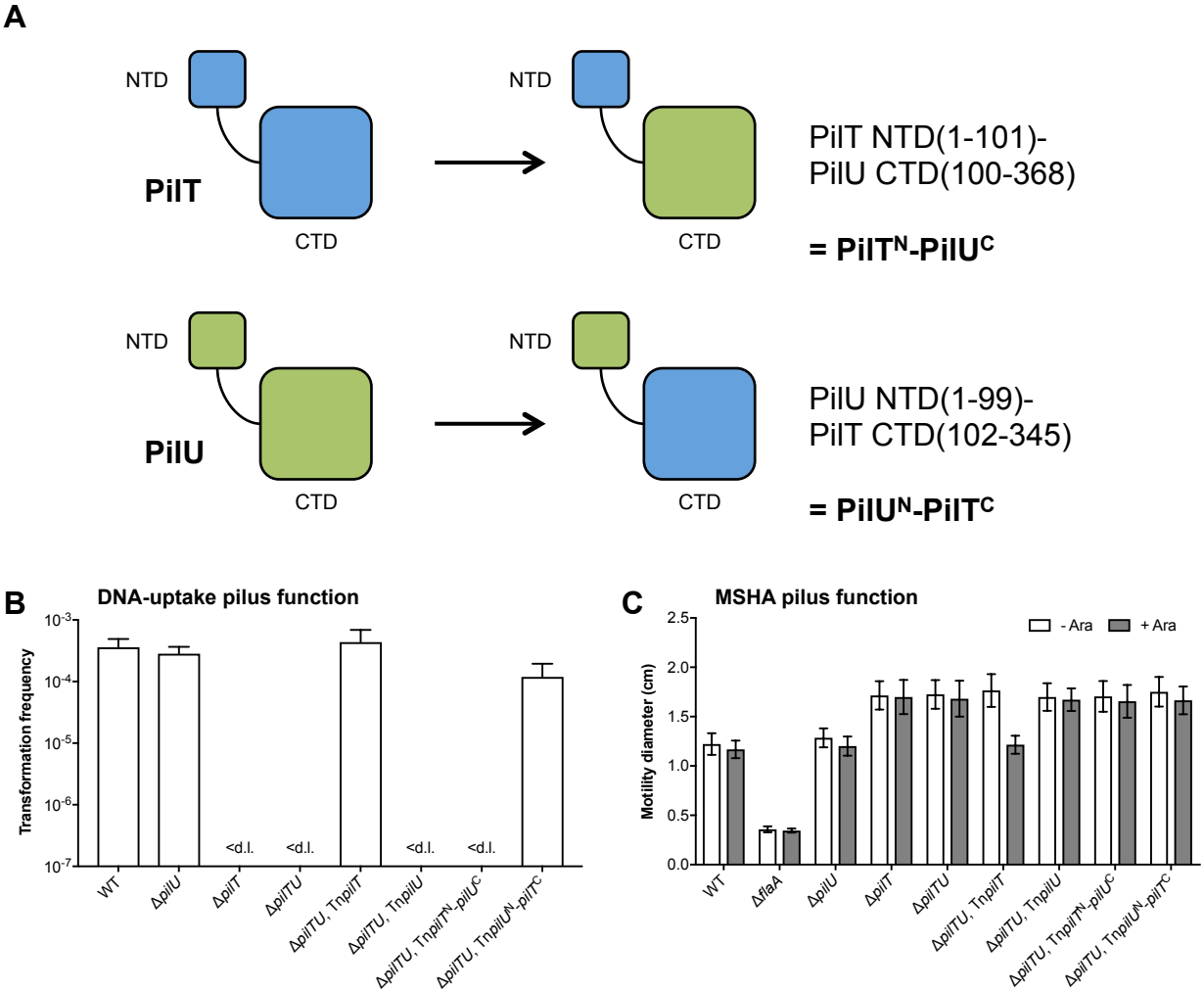
A
NTD
PilT
CTD
NTD
CTD
PilT NTD(1-101)-
PilU CTD(100-368)
= PilT^N-PilU^C
NTD
PilU
CTD
NTD
CTD
PilU NTD(1-99)-
PilT CTD(102-345)
= PilU^N-PilT^C
B
DNA-uptake pilus function
Transformation frequency
10^-3
10^-4
10^-5
10^-6
10^-7
<d.l.
<d.l.
<d.l.
<d.l.
WT
ΔpilU
ΔpilT
ΔpilTU
ΔpilTU, TnpilT
ΔpilTU, TnpilU
ΔpilTU, TnpilT^N-pilU^C
ΔpilTU, TnpilU^N-pilT^C
C
MSHA pilus function
- Ara
+ Ara
Motility diameter (cm)
2.5
2.0
1.5
1.0
0.5
0.0
WT
ΔflaA
ΔpilU
ΔpilT
ΔpilTU
ΔpilTU, TnpilT
ΔpilTU, TnpilU
ΔpilTU, TnpilT^N-pilU^C
ΔpilTU, TnpilU^N-pilT^C